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Dispersion with nonionic emulsifier

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This application claims priority to German Application No. 100 11 447.4, filed March 10, 2001.
This application is a 371 of PCT/EP01/01108, filed February 02, 2001.

The invention relates to the field of dispersions and to their use as coating agents and binders for pharmaceutical forms.

Prior Art

The use of so-called neutral methacrylate copolymers, i.e. methacrylate copolymers consisting predominantly of (meth)acrylate monomers with neutral radicals, such as methyl methacrylate or ethyl methacrylate as coating agents and binders for pharmaceutical forms with delayed active-substance release has been known for a long time.

Uses in mixtures with anionic dispersions are described, for example, in EP-A 152 038, EP-A 208 213 or EP-A 617 972.

The neutral methacrylate copolymers are nowadays used preferably as dispersions. Dispersions of this kind are prepared by emulsion polymerization and therefore include as a result of their preparation an emulsifier, which also brings about the stability of the resulting dispersion per se. In the finished pharmaceutical form, moreover, the emulsifier present influences the active substance release characteristics.

As a result of the intended use in pharmaceuticals, and on account of the fact that owing to the monomer composition the copolymers have few if any charges, the selection of appropriate emulsifiers is very limited.

Göpferich and Lee in "The influence of endogenous surfactant on the structure and drug-release properties of Eudragit NE30D matrices", Journal of Controlled Release 18 (1992), pp. 133-144, describe how an emulsifier of the nonylphenol type present in the